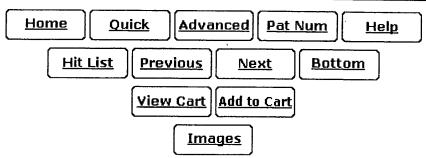
United States Patent: 5,356,774

USPTO PATENT FULL-TEXT AND IMAGE DATABASE



(40 of 44)

United States Patent Axelrod, et al.

5,356,774 October 18, 1994

Replicative RNA-based amplification/detection systems

Abstract

This invention relates to the use of functional reporter molecules in the detection and measurement of nucleic acid sequences in a sample, as a determination, for example, of pathogenic disease existence or potential. The invention is predicated on the utilization of a transcription step between the production of an appropriate *reporter molecule* and replication based amplification in order to increase the number of detectable species as an indirect reference to target nucleic acid sequence.

Inventors: Axelrod; Vladimir D. (New York, NY); Kramer; Fred R. (New York, NY); Lizardi;

Paul M. (Cuernavaca, MX); Mills; Donald R. (Englewood, NJ)

Assignee: The Trustees of Columbia University in the City of New York (New York, NY)

Appl. No.: 908833

Filed: **July 2, 1992**

Current U.S. Class:

435/6; 435/91.21; 435/91.31; 536/23.1; 536/24.31; 536/24.32

Intern'l Class:

C12Q 001/68

Field of Search:

435/6,172.3,91.21,91.31 536/27,23.1,24.31,24.32 935/77,78

	Reference	es Cited [Referenced By]	
	U.S.	Patent Documents	
<u>4683195</u>	Jul., 1987	Mullis et al.	435/6.
<u>4683202</u>	Jul., 1987	Mullis	435/91.
<u>4786600</u>	Nov., 1988	Kramer et al.	
	Foreig	n Patent Documents	
0128042	Dec., 1984	EP.	
0200362	Dec., 1986	EP.	